



FTSE China A50 Index

v1.7



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Section 1

Introduction

1.0 Introduction

- 1.1 This document sets out the Ground Rules for the construction and management of the FTSE China A50 Index. Copies of the Ground Rules are available from www.ftserussell.com.

The **FTSE China A50 Index** is designed to represent the performance of the 50 largest companies by full market capitalisation of the mainland Chinese market that is available to domestic, and international investors via the Qualified Foreign Institutional Investor (QFII), Renminbi Qualified Foreign Institutional Investor (RQFII) scheme and Stock Connect programmes. The FTSE China A50 Index is a subset of the FTSE China A All Cap Free Index.

1.2 FTSE China A All Cap Free Index

The FTSE China A All Cap Free Index is a free float adjusted index that comprises large, mid and small cap China A-share companies.

Ground Rules for the FTSE China A All Cap Free Index can be found using the following link:

[FTSE China A All Cap Index Series English.pdf](#)

1.3 FTSE Russell

FTSE Russell is a trading name of FTSE International Limited, Frank Russell Company, FTSE Global Debt Capital Markets Limited (and its subsidiaries FTSE Global Debt Capital Markets Inc. and MTSNext Limited), Mergent, Inc., FTSE Fixed Income LLC, The Yield Book Inc and Beyond Ratings.

1.4 IOSCO

- 1.4.1 FTSE Russell considers that the FTSE China A50 Index meets the IOSCO Principles for Financial Benchmarks as published in July 2013.

Full details can be accessed at www.iosco.org.

Details of FTSE Russell's Statement of Compliance with respect to the IOSCO Principles can be accessed using the following link:

[IOSCO Statement of Compliance](#).

- 1.5 FTSE Russell hereby notifies users of the index series that it is possible that circumstances, including external events beyond the control of FTSE Russell, may necessitate changes to, or the cessation, of the index series and therefore, any financial contracts or other financial instruments that reference the index series or investment funds which use the index to measure their

performance should be able to withstand, or otherwise address the possibility of changes to, or cessation of, the index series.

1.6 Index users who choose to follow this index or to buy products that claim to follow this index should assess the merits of the index's rules-based methodology and take independent investment advice before investing their own or client funds. No liability whether as a result of negligence or otherwise is accepted by FTSE Russell or any members of the FTSE Russell Policy Advisory Board or FTSE Russell Asia Pacific Regional Advisory Committee (or any person concerned with the preparation or publication of these Ground Rules) for any losses, damages, claims and expenses suffered by any person as a result of:

- any reliance on these Ground Rules, and/or
- any errors or inaccuracies in these Ground Rules, and/or
- any non-application or misapplication of the policies or procedures described in these Ground Rules, and/or
- any errors or inaccuracies in the compilation of the Index or any constituent data.



Section 2

Management Responsibilities

2.0 Management Responsibilities

2.1 FTSE International Limited (FTSE)

2.1.1 FTSE is the benchmark administrator of the index.¹

2.1.2 FTSE is responsible for the daily calculation, production and operation of the Index Series and will:

- maintain records of the index weightings of all constituents;
- make changes to the constituents and their weightings in accordance with the Ground Rules;
- carry out the periodic index reviews of the Index Series and apply the changes resulting from the reviews as required by the Ground Rules;
- publish changes to the constituent weightings resulting from their ongoing maintenance and the periodic reviews;
- disseminate the indexes.

2.2 Status of these Ground Rules

2.2.1 These Ground Rules set out the methodology and provide information about the publication of the FTSE China A50 Index.

2.3 Amendments to these Ground Rules

2.3.1 These Ground Rules shall be subject to regular review (at least once a year) by FTSE Russell to ensure that they continue to best reflect the aims of the index. Any proposals for significant amendments to these Ground Rules will be subject to consultation with FTSE Russell advisory committees and other stakeholders if appropriate. The feedback from these consultations will be considered by the FTSE Russell Product Governance Board before approval is granted.

¹ The term administrator is used in this document in the same sense as it is defined in [Regulation \(EU\) 2016/1011 of the European Parliament and of the Council of 8 June 2016 on indices used as benchmarks in financial instruments and financial contracts or to measure the performance of investment funds](#) (the European Benchmark Regulation).

2.3.2 As provided for in the Statement of Principles for FTSE Russell Equity Indexes, where FTSE Russell determines that the Ground Rules are silent or do not specifically and unambiguously apply to the subject matter of any decision, any decision shall be based as far as practical on the Statement of Principles. After making any such determination, FTSE Russell shall advise the market of its decision at the earliest opportunity. Any such treatment will not be considered as an exception or change to the Ground Rules, or to set a precedent for future action, but FTSE Russell will consider whether the Rules should subsequently be updated to provide greater clarity.



Section 3

FTSE Russell Index Policies

3.0 FTSE Russell Index Policies

These Ground Rules should be read in conjunction with the following policy documents which can be accessed using the links below:

3.1 Corporate Actions and Events Guide

- 3.1.1 Full details of changes to constituent companies due to corporate actions and events can be accessed in the Corporate Actions and Events Guide using the following link:

[Corporate Actions and Events Guide.pdf](#)

3.2 Statement of Principles for FTSE Russell market capitalisation weighted equity indexes (the Statement of Principles)

Indexes need to keep abreast of changing markets and the Ground Rules cannot anticipate every eventuality. Where the Rules do not fully cover a specific event or development, FTSE Russell will determine the appropriate treatment by reference to the Statement of Principles which summarises the ethos underlying FTSE Russell's approach to index construction. The Statement of Principles is reviewed annually and any changes proposed by FTSE Russell are presented to the FTSE Russell Policy Advisory Board for discussion before approval by the FTSE Russell Product Governance Board.

The Statement of Principles can be accessed using the following link:

[Statement of Principles.pdf](#)

3.3 Queries, Complaints and Appeals

A constituent or prospective constituent company (or professional advisor acting on behalf of the company), a national organisation or a group of no fewer than ten users of the Index from different organisations acting in their professional capacity may appeal against decisions taken by FTSE Russell.

FTSE Russell's complaints procedure can be accessed using the following link:

[Benchmark Determination Complaints Handling Policy.pdf](#)

FTSE Russell's Appeal Process can be accessed using the following link:

[Appeals Against Decisions.pdf](#)

3.4 **Index Policy for Trading Halts and Market Closures**

- 3.4.1 Guidance for the treatment of index changes in the event of trading halts or market closures can be found using the following link:

[Index Policy for Trading Halts and Market Closures.pdf](#)

3.5 **Index Policy in the Event Clients are Unable to Trade a Market**

- 3.5.1 Details of FTSE Russell's treatment can be accessed using the following link:

[Index Policy in the Event Clients are Unable to Trade a Market.pdf](#)

3.6 **Recalculation Policy and Guidelines**

- 3.6.1 The FTSE China A50 Index is recalculated whenever errors or distortions occur that are deemed to be significant. Users of the FTSE China A50 Index are notified through appropriate media.

For further information refer to the FTSE Russell Recalculation Policy and Guidelines document which is available from the FTSE Russell website using the link below or by contacting info@ftserussell.com.

[Recalculation Policy and Guidelines Equity Indexes.pdf](#)

3.7 **Policy for Benchmark Methodology Changes**

- 3.7.1 Details of FTSE Russell's policy for making benchmark methodology changes can be accessed using the following link:

[Policy for Benchmark Methodology Changes.pdf](#)



Section 4

Eligible Securities

4.0 Eligible Securities

- 4.1 The constituents of the FTSE China A All Cap Free Index are eligible for inclusion in the FTSE China A50 Index, subject to conforming with Rules 4.2 to 4,9 (see also Appendix A & Appendix B).
- 4.2 The entire quoted equity capital of a constituent company is included in the calculation of its market capitalisation, subject to the free float restrictions highlighted in Rule 4,4,1.
- 4.3 FTSE Russell calculates free float from the perspective of a portfolio shareholder. This allows FTSE Russell indices to take into account the true opportunity set available to an investor.
- 4.3.1 In order to calculate the free float of a company its total A Shares will need to be derived. This is calculated by taking the entire quoted equity capital of a company and excluding its B and H Shares, or by using the following formula:

Total A Shares = Tradable A Shares + Non-Tradable A Shares + Non-negotiable Shares*

* if applicable

- 4.4 In order to calculate the free float of a company FTSE Russell will screen all publically available shareholder information, regardless of the size of holding, and identify them as either restricted or unrestricted holdings.

- 4.4.1 Further details on free float restrictions can be accessed using the following link:

[Free Float Restrictions.pdf](#)

- 4.4.2 Initial Weighting

Free float will be calculated using available published information rounded to 12 decimal places.

Companies with a free float of 5% or below are not eligible for inclusion in the Index, unless they exceed 10 times the China region inclusion percentage level by investable market capitalisation. For further details please see the Ground Rules for the FTSE China A All Cap Free Index using the following link:

[FTSE China A All Cap Index Series English.pdf](#)

Free float example – determining the initial free float

Shareholder type	Shareholding %
Government controlled	26.65
Corporate Investment	5.52
Employee share incentive scheme	0.76
Director/Senior management holding	0.14
Free float	66.93

The table above shows the free float structure of a company, in particular the restricted shareholders, as highlighted in Rule 4.4.1. Almost 27% of the company's shares are in the control of the government with a further 5.5% held by a corporate investment. In total the company's restricted shareholders account for 33.07% of its shares. The free float of the company is 66.93% (100 - 33.07)

4.4.3 Minimum Foreign Headroom Requirement

FTSE Russell defines "foreign headroom" as the percentage of shares available to foreign investors as a proportion of the company's Foreign Ownership Limit (FOL), i.e. $(FOL - \text{foreign holdings})/FOL$.

For example, if a company has a foreign ownership limit, of 49%, of which 39% is held by foreign investors, the foreign headroom will be calculated as 20.41% i.e. $(49\% - 39\%)/49\%$.

- A) For a non-constituent that is subject to foreign ownership limit, a minimum headroom of 20% must be available in order to be included in the index.
- B) For an existing constituent that is subject to foreign ownership limit, a minimum headroom of 10% must be available.
- C) Headroom tests are conducted in conjunction with the March, June, September and December quarterly reviews.
- D) Where the headroom of an existing constituent falls below 10% and its free float is greater than its foreign ownership limit, its investability weight will be lowered to its foreign ownership weight in four steps, i.e. the next four consecutive quarterly reviews, in equal proportion. The reduction will not be reversed in the case that the foreign headroom rises above 10%.

For Example, if Company A's free float is 60% (i.e. Free Float is greater than the 30% FOL), its investability weight will be reduced in the following steps:

Company A – Free Float 60% FOL 30%	
(Q1) First Headroom Adjustment	52.5% (7.5% reduction from 60%, where $7.5\% = (60-30\%)/4$)
(Q2) Second Headroom Adjustment	45.0% (7.5% reduction)
(Q3) Third Headroom Adjustment	37.5% (7.5% reduction)
(Q4) Fourth Headroom Adjustment	30.0% (7.5% reduction)

If Company A's free float subsequently decreases from 60% to 40% after the first headroom adjustment then the following illustrative adjustments would be applied:

Company A's free float subsequently decreases from 60% to 40%

(Q1) First Headroom Adjustment	52.5% (7.5% reduction from 60%, where 7.5% = (60-30%)/4)
(Q2) Second Headroom Adjustment	40% (reflects reduced free float from 60% to 40%)
(Q3) Third Headroom Adjustment	35% (5% reduction from 40%, where 5% = (40%-30%)/2)
(Q4) Fourth Headroom Adjustment	30% (5% reduction)

- E) Where the headroom of an existing constituent falls below 10%, and its free float is less than its foreign ownership limit or following the weight adjustments in 4.4.3 D its headroom remains below 10%, its investability weight will be reduced by an absolute value of 5% at the next quarterly review.

For example, if Company B's current investability weight is 20% (i.e. Free Float more restrictive than FOL), a 5% absolute reduction will result in an adjusted investability weight of 15% (20%-5%).

Please note, prior to March 2016, existing index constituents which had a headroom less than 10%, had their investability weight reduced by 10% of their current investability weight i.e. if their investability weight was 49%, a 10% relative adjustment will result in an adjusted investability weight of 44.1% (49% * 0.9).

- F) The investability weight will continue to be reduced at subsequent quarterly reviews in increments of 5% until the headroom level increases to 10% or above. As a result of these quarterly 5% downward adjustments, should the investability weight of the security fall to 5% under this process, the security will no longer be eligible to remain in the index subject to the rules outlined 4.4.2.
- G) The investability weight of an existing constituent which has been subject to headroom adjustments will have its most recent 5% adjustment reversed at a quarterly review subject to the condition that either the company's foreign ownership is no longer flagged by the stock exchanges or when the headroom remaining rises to above 20%. The adjustment will continue until its investability weight reaches the investability weight for foreign investors (e.g. where the foreign ownership restriction is less than the free float).

- 4.5 Where a company's shares are issued partly, or nil, paid and the call dates are already determined and known, the market price will, for the purposes of calculating its market capitalisation, be adjusted so as to include all such calls (i.e. the fully paid price).
- 4.6 Convertible preference shares and loan stocks are excluded until converted.
- 4.7 Companies whose business is that of holding equity and other investments (i.e. Investment Trusts) which are classified by the Industry Classification Benchmark² as Subsector Equity Investment Instruments (8985) (New ICB Closed End Investments (30204000)) and non-equity investment instruments which are classified by the Industry Classification Benchmark as Subsector Non-Equity Investment Instruments (8995) (New ICB Open End and Miscellaneous Investment Vehicles (30205000)) will not be eligible for inclusion. For further details on the Industry Classification Benchmark (ICB), please visit the FTSE Russell website.
- 4.8 Securities designated "Special Treatment (ST or *ST)" are not eligible for inclusion in the index. If a constituent is designated as 'Special Treatment' by the exchange, it will normally be deleted from the

² FTSE related indexes will migrate to the new ICB classification system in September 2020.

index in line with the next quarterly review and it will only be reconsidered for index inclusion after a period of 12 months from its deletion subject to it no longer being under surveillance. For the purposes of the index eligibility it will be treated as a new issue.

Securities that are assigned to the above segments after the review announcement date but before the index review effective date are assessed on a case-by-case basis which may generally result in scheduled index review additions, investability weight and shares in issue changes no longer being implemented at the forthcoming review.

4.9 Securities must be sufficiently liquid to be traded. The following criteria are used to ensure that illiquid securities are excluded:

- A. Price - There must be an accurate and reliable price for the purposes of determining the market value of a company.
- B. Size - The 50 largest companies of the FTSE China A All Cap Free Index will be included in the FTSE China A50 Index. FTSE Russell will determine which companies are included in the FTSE China A All Cap Free Index on a semi-annual basis in March and September.
- C. Liquidity - Each security will be tested for liquidity semi-annually in March and September as part of the FTSE China A All Cap Free Index review.

Liquidity will be calculated for the March review from the first business day of January to the last business day of December of the previous year and for the September review from the first business day of July of the previous year to the last business day of June. When calculating the median of daily trading volume of any security for a particular month, a minimum of 5 trading days in that month must exist, otherwise the month will be excluded from the test.

For each month, the daily trading volume for each security is calculated as a percentage of the shares in issue for that day adjusted by the free float at the review cut off date. These daily values are then ranked in descending order and the median is taken by selecting the value for the middle ranking day if there is an odd number of days and the mean of the middle two if there is an even number of days.

Daily totals with zero trades are included in the ranking; therefore a security that fails to trade for more than half of the days in a month will have a zero median trading volume for that month.

Any period of suspension will not be included in the test.

For newly eligible securities where the testing period is less than 12 months, the liquidity test will be applied on a pro-rata basis.

Liquidity Thresholds:

- A. An existing constituent which, based on its median daily trading volume per month does not turnover at least 0.04% of its shares in issue (after the application of any free float weightings*) for at least eight of the twelve months prior to a full market review will be removed from the Index Series.
- B. A non-constituent which, based on its median daily trading volume per month, does not turnover at least 0.05% of its shares in issue (after the application of any free float weightings*) for at least ten of the twelve months prior to a full market review will continue to be excluded from the Index Series.
- C. New issues which do not have a twelve month trading record must have a minimum three month trading record when reviewed. They must turnover at least 0.05% of their shares in

issue (after the application of any free float weightings)* based on their median daily trading volume each month, on a pro-rata basis since listing.

Newly eligible securities will be treated as new issues and liquidity will be tested from the date of eligibility. Trading records prior to this date will generally not be taken into account.

*When testing liquidity the free float weight as at the last date in the testing period will be used for the calculation for the whole of that period.

- D. The above percentage figures may be adjusted by up to 0.01% at a market review so that, in FTSE's opinion, the index better reflects the liquid investable market of the region. This discretion may only be exercised across the whole of a region and may not be applied to individual securities or countries.

For further details please refer to the FTSE Global Equity Index Series - Guide to Calculation Method for the Median Liquidity Test which can be accessed using the following link:

[Guide to Calculation Methods for GEIS Liquidity.pdf](#)

4.10 Trading Screen

4.10.1 Existing and non-constituent securities which have not traded on 60 or more trading days during the past year (up to and including the review cut-off date), will not be eligible for index inclusion. Regular/ad-hoc market holidays, and unscheduled market closures will not count towards the total; otherwise, the reason(s) for a security's non-trading will not be considered. If a security does not have a full year of trading, the 60 day period will be pro-rated according to the number of available trading days passed since its listing. Please note:

- All standard trading days will be incorporated within the calculation (Friday and Sundays as appropriate)
- Ad-hoc non-standard trading days will not be incorporated within the calculation (e.g. ad-hoc Saturday trading will not be considered)
- Where a pro-rata calculation is necessary, the number of available trading days on the underlying market during the previous year up to and including the review cut-off date will be used as the basis of the calculation. E.g. Market ABC has 253 available trading days for the annual period to the review cut-off date; therefore the security would not be eligible if for 23.7% (60/253) or more of its available trading days since listing, it did not trade.
- A security which has been removed from an index as a result of this screen will only be re-considered for inclusion after a period of 12 months from its deletion. For the purposes of index eligibility it will be treated as a new issue.

* When testing liquidity the free float weight as at the last date in the testing period will be used for the calculation for the whole of that period



Section 5

Periodic Review of Constituents

5.0 Periodic Review of Constituents

5.1 Review Dates

- 5.1.1 The quarterly review of the FTSE China A50 Index takes place in March, June, September and December. The constituents will be reviewed using data from the close of business on the Monday following the third Friday in February, May, August and November. Where there is a market holiday in either China or Hong Kong on the Monday following the third Friday, the close of business on the last trading day prior to the Monday after the third Friday, where both markets are open, will be used. Any constituent changes will be implemented after the close of business on the third Friday of March, June, September and December.
- 5.1.2 Quarterly changes are published after the close of business on the Wednesday before the first Friday of March, June, September and December to give users of the index sufficient notification of the changes before their implementation.

5.2 Rules for Addition and Deletion at the Quarterly Review

- 5.2.1 The rules for inserting and deleting companies at the quarterly reviews are designed to provide stability in the selection of constituents of the FTSE China A50 Index while ensuring that the Index continues to be representative of the market by including or excluding those companies which have risen or fallen significantly.
- 5.2.2 In determining the full market capitalisation of a company, all share classes are included, while only the eligible share classes are included in the index weighting. Please see Appendix A for the share class description.
- 5.2.3 A security will be inserted at the periodic review if it rises to 40th or above when the eligible securities of the FTSE China A50 Index are ranked by capitalisation.
- 5.2.4 A constituent will be deleted at the periodic review if it falls to 61st or below for the eligible securities for FTSE China A50 Index are ranked by market capitalisation.
- 5.2.5 A constant number of constituents will be maintained for the FTSE China A50 Index. Where a greater number of companies qualify to be inserted in an index than those qualifying to be deleted (see Rules 6.2.3 and 6.2.4), the lowest ranking constituents presently included in the index will be deleted to ensure that an equal number of companies are inserted and deleted at the periodic review. Likewise, where a greater number of companies qualify to be deleted than those qualifying to be inserted (see Rules 6.2.3 and 6.2.4), the securities of the highest ranking companies which are

presently not included in the index will be inserted to match the number of companies being deleted at the periodic review.

- 5.2.6 Where a company is deleted after the periodic changes to the index have been announced but before the periodic changes have been implemented, the highest ranking company from the new Reserve List (see Rule 5.3), excluding current index constituents, will replace the deleted company.

5.3 **Reserve Lists**

- 5.3.1 FTSE Russell is responsible for publishing the five highest ranking securities that are not constituents of the FTSE China A50 Index at the time of each quarterly review. These Reserve Lists will be used in the event that one or more constituents is deleted from the FTSE China A50 Index during the period up to the next quarterly review. Companies on the Reserve Lists will be constituents of the FTSE China A All Cap Free Index.

- 5.3.2 In the event that only 2 Reserve List stocks remain available for the FTSE China A50 Index. FTSE Russell will publish an additional 3 Reserve List stocks for the FTSE China A50 Index. The companies will be selected using the rankings determined at the previous quarterly review, but will be re-ranked using prices two days prior to the deletion of a constituent.



Section 6

Changes to Constituent Companies

6.0 Changes to Constituent Companies

6.1 Removal and Replacement

- 6.1.1 If a constituent ceases to be an eligible constituent of the FTSE China A All Cap Free Index, is delisted, or ceases to have a firm quotation, or is subject to a takeover or has ceased to be a viable constituent as defined by the Ground Rules, it will be removed from the list of constituents of the FTSE China A50 Index and be replaced by the highest ranking company by full market capitalisation eligible in the appropriate Reserve List (see Rule 5.3) as at the close of the index calculation two days prior to the deletion.
- 6.1.2 The removal and replacement are effected simultaneously, before the start of the index calculation on the day following the day on which the event justifying removal was announced. Announcements made after the close of the index calculation are normally deemed to be made on the following business day.
- 6.1.3 A company deleted following a takeover, with a remaining free float of 15% or less, will not be reconsidered for index inclusion until completion of a 6 months trading record.

6.2 New Issues

- 6.2.1 There will be no intra review additions for the FTSE China A50 Index. Newly issued securities which meet the criteria for eligible securities set out in Section 4 will be eligible for inclusion at the next quarterly review if large enough to become constituents of the FTSE China A50 Index.
- 6.2.2 A China “B” share company that for the first time issues “A” shares onto the Shanghai or Shenzhen Stock Exchange will be considered a new issue and will be eligible for entry into the FTSE China A50 Index at the next quarterly review if it meets the criteria for eligible securities.
- 6.2.3 Variable and best effort IPOs and direct listing IPOs will be considered for index inclusion at the next index review if, by the review cut-off date, a public disclosure* is available confirming either the actual number of shares sold during the offering or the post IPO shareholder structure. Index inclusion remains subject to meeting all other eligibility criteria. If the number of shares sold during the IPO, or the post IPO shareholder structure, remains unknown on the review cut-off date, the evaluation of the company will be deferred to a subsequent index review.

*A public disclosure is typically by way of a company filing, stock exchange notice or shareholding regulatory announcement.



Section 7

Changes to Constituent Weightings

7.0 Changes to Constituent Weightings

7.1 Changes in Free Float

The FTSE China A50 Index will be periodically reviewed for changes in free float. These reviews will coincide with the quarterly reviews FTSE China A50 Index. Implementation of any changes will happen at close of trading on the third Friday in March, June, September and December.

A constituent's free float will also be reviewed and adjusted if necessary:

- by identifying information which necessitates a change in free float weighting;
- following a corporate event; or
- expiry of a lock-in clause.

If a corporate event includes a corporate action which affects the index, any change in free float will be implemented at the same time as the corporate action.

Section 8

Corporate Actions and Events

8.0 Corporate Actions and Events

8.1 Full details of changes to constituent companies due to corporate actions and events can be accessed in the Corporate Actions and Events Guide using the following link:

[Corporate Actions and Events Guide.pdf](#)

A Corporate 'Action' is an action on shareholders with a prescribed ex date. The share price will be subject to an adjustment on the ex date. These include the following:

- Capital Repayments
- Rights Issues/Entitlement Offers
- Stock Conversion
- Splits (sub-division) / Reverse splits (consolidation)
- Scrip issues (Capitalisation or Bonus Issue)

A Corporate 'Event' is a reaction to company news (event) that may impact the index depending on the index rules. For example, a company announces a strategic shareholder is offering to sell their shares (secondary share offer) – this could result in a free float weighting change in the index. Where an index adjustment is required FTSE will provide notice advising of the timing of the change.

8.2 Shares in Issue

Changes to the number of shares in issue for constituent securities are covered in the Corporate Actions and Events Guide.

8.3 Investability Weightings

8.3.1 Changes to free float for constituent securities are covered in the Corporate Actions and Events Guide.

8.4 Mergers, Restructuring and Complex Takeovers

8.4.1 If the effect of a merger or takeover is that one constituent in the FTSE China A50 Index is absorbed by another constituent, the resulting company will remain a constituent of the appropriate index, and a vacancy will be created. This vacancy will be filled by selecting the highest ranking security in the appropriate Reserve List (see Rule 5.3) as at the close of the index calculation two days prior to the deletion and the FTSE China A50 Index adjusted in accordance with Rules 6.1.1 and 6.1.2.

- 8.4.2 If a constituent company in the FTSE China A50 Index is taken over by a non-constituent company, the original constituent will be removed and replaced by the company resulting from the takeover if eligible. If not eligible, the replacement will be selected according to Rule 6.1.1.
- 8.4.3 If a constituent company is split so as to form two or more companies, then the resulting companies will be eligible for inclusion as index constituents in the FTSE China A50 Index based on their respective full market capitalisations i.e. before the application of any investability weightings and if they qualify in all other respects, e.g. a FTSE China A50 Index constituent splits into two companies may result in one or both of these companies remaining in the FTSE China A50 Index. The smallest FTSE China A50 Index constituent will be removed.
- 8.4.4 Index constituent changes resulting from the split will be determined based on market values at close on day one of trading and applied using market values at close on day two of trading, following the split becoming effective. Consequently the FTSE China A50 Index may have more than 50 companies for 2 days.

8.5 **Investability Weightings**

- 8.5.1 Changes to free float for constituent securities are covered in the Corporate Actions and Events Guide.

8.6 **Suspended Companies**

- 8.6.1 Suspension of dealing rules can be found within the Corporate Actions and Events Guide.
- 8.6.2 Where the company to be removed is a constituent of the FTSE China A50 Index, the replacement company will be the highest ranking company on the FTSE China A50 Index Reserve List.



Section 9

Industry Classification Benchmark System

9.0 Industry Classification Benchmark System³

9.1 Industry Classification Structure

- 9.1.1 The FTSE China A50 Index constituents are classified into Industries, Supersectors, Sectors and Subsectors, as defined by the Industry Classification Benchmark (ICB).
- 9.1.2 Details of the Industry Classification Benchmark are available from FTSE Russell and published on the FTSE Russell website (www.ftserussell.com) and can be accessed using the following link: [Industry Classification Benchmark](#)

³ FTSE related indexes will migrate to the new ICB classification system in September 2020.



Section 10

Index Algorithm and Calculation Method

10.0 Index Algorithm and Calculation Method

10.1 Prices

10.1.1 The FTSE China A50 Index uses actual trade prices for securities with local stock exchange quotations. The foreign exchange rates received from Reuters at the closing time of the Index (see Appendix B & Appendix C) are used to calculate the end of day index values in Renminbi (Chinese Yuan), Hong Kong dollars and US dollars.

10.1.2 The FTSE China A50 Index receives share prices in real time.

10.2 Dividend Treatment

10.2.1 Cash dividends are included in the total return calculations of the FTSE China A50 Index based on their ex-dividend dates.

10.2.2 Total Return Indices are published at the end of each working day.

10.3 Algorithm

10.3.1 The index is calculated using the algorithm described below.

$$\sum_{i=1}^N \frac{(p_i \times e_i \times s_i \times f_i)}{d}$$

Where,

- $i=1,2,\dots,N$
- N is the number of securities in the Index.
- p_i is the latest trade price of the component security (or the price at the close of the Index on the previous day).
- e_i is the exchange rate required to convert the security's currency into the Index's base currency.
- s_i is the number of shares in issue used by FTSE Russell for the security, as defined in these Ground Rules.
- f_i is the Investability Weighting Factor to be applied to a security to allow amendments to its weighting, expressed as a number between 0 and 1, where 1 represents a 100% free float. This factor is published by FTSE Russell for each security in the underlying index.

- d is the divisor, a figure that represents the total issued share Capital of the Index at the base date. The divisor can be adjusted to allow changes in the issued share Capital of individual securities to be made without distorting the Index.



Appendix A: Markets & Stock Exchanges

- 1.0 The FTSE China A50 Index consists of A share classes of equity that trade on the Shanghai and Shenzhen stock exchanges. In determining the full market capitalisation of a company for ranking purposes, all share classes are included, while only the eligible share classes are included in the index weighting.
- 2.0 **Share Descriptions**
- 2.1 For a description of Chinese share classes please see the “Guide to Chinese Share Classes” document which can be accessed using the following link:
[Guide to Chinese Share Classes.pdf](#)
- 2.2 The definitions these share classes are reviewed annually in September effective on the same day as the Global Equity Index Series.



Appendix B: Eligible Markets, Exchanges & Exchange Rates

Markets eligible for the FTSE China A50 Index and sources of trading volume data used in accordance with Rule 4.9 (C):

Region	Country	Exchange Locations	Market Sections
Asia / Pacific	China (the People's Republic of) (China)	Shanghai	Main Board
		Shenzhen	Main Board, Small and Medium Enterprise Board ChiNext Board

Foreign Exchange Rates

The FTSE China A50 Index is calculated in Renminbi (Chinese Yuan) for real time calculations, and is calculated in Renminbi (Chinese Yuan), Hong Kong dollars and US dollars for end of day index values.

The foreign exchange rates received from Reuters at the closing time of the Index (15:00, local time – see Appendix C) are used to calculate the final Index levels and are termed the “closing FTSE China A50 Index foreign exchange rates”.



Appendix C: Index & Market Opening and Closing Hours

Index	Open	Close
FTSE China A50 Index	09:30	15:00
Stock Market Trading Times:		
Shanghai	09:30 13:00	11:30 15:00
Shenzhen	09:30 13:00	11:30 15:00

All times are Local China Time

The FTSE China A50 Index is calculated on public holidays whenever at least one exchange is trading. The Index will not be calculated on 1 January.



Appendix D: Status of Indexes

The FTSE China A50 Index is calculated in real time. The FTSE China A50 Index is published on an intra-second streaming basis. The index may exist in the following states:

A) **Firm**

The index is calculated using trade prices from the relevant local stock exchanges for all constituents during the hours of the Official Index Period (see Appendix C).

The Official Closing Index for the FTSE China A50 Index is the last index value calculated at the end of the firm period.

B) **Closed**

When the index has ceased all calculations for the day, the message '**CLOSED**' is displayed against the index value.

C) **Held**

During the firm period, an index has exceeded pre-set operating parameters and calculation has been suspended pending resolution of the problem. The message '**HELD**' is displayed against the last index value calculated.

D) **Indicative**

If there is a system problem or a situation in the market that is judged to be affecting the quality of the constituent prices at any time when an index is being calculated, the index will be declared indicative. The message '**IND**' will be displayed against the index value.

The official opening and closing hours of the FTSE China A50 Index are set out in Appendix C. Variations to the official hours of the index is published by FTSE Russell as appropriate.

The FTSE China A50 Index is calculated on public holidays whenever at least one exchange is trading. The Index will not be calculated on 1 January.



Appendix E: Further Information

A Glossary of Terms used in FTSE Russell's Ground Rule documents can be found using the following link:
[Glossary.pdf](#)

Further information on the FTSE China A50 Index is available from FTSE Russell.

For contact details please visit the FTSE Russell website or contact FTSE Russell client services at
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Website: www.ftserussell.com

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